

FEDOTOV, I.I., inzh.; GUR'YEV, G.M., inzh.; PETRULENKO, V.Ye., inzh.;

KHAZANOVSKIY, P.M., inzh.

Saturation and drying of the windings of asynchronous motors.

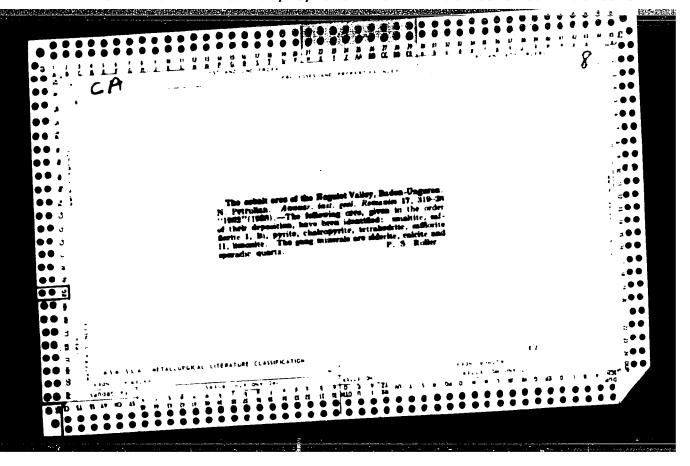
Vest. elektroprom. 33 no.10:71 0 '62. (MIRA 15:9)

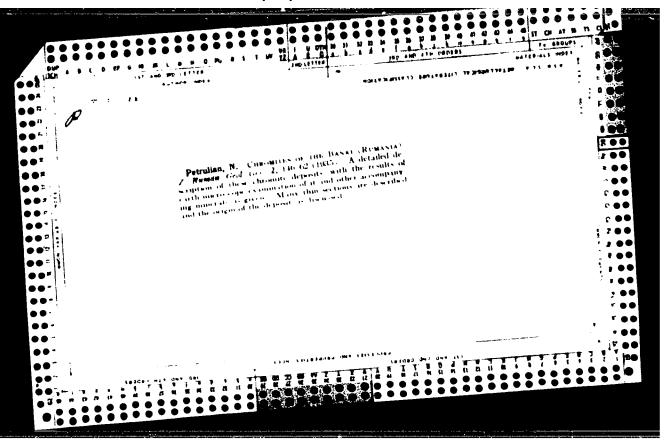
(Electric motors, Induction—Drying)

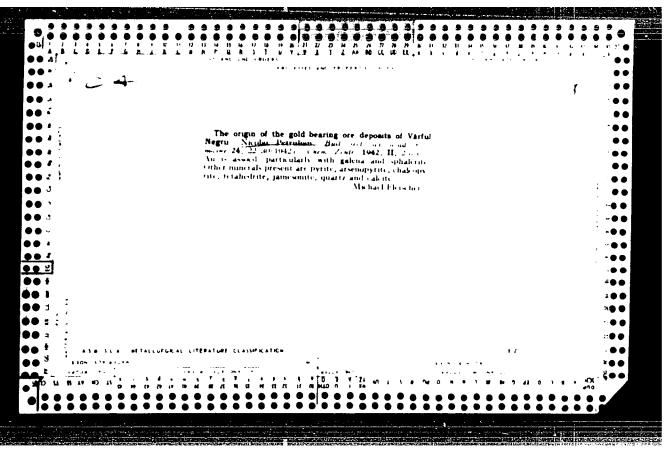
1 64569-65 HI/0012/61/000/006/0993/1001 ACCESSION NR: AP5023481 AUTHOR: Petrulian, Sh. (Major General, Doctor); Dances, Tr. (Doctor in medical sciences, Doctor); Bachman, M. (Identepant Colonel, Doctor); Bachman, Tr. (Lieutenant Colonel, Doctor); Bagdan, Tr. (Lieutenant Colonel, Doctor); Marinescu, L. (Lieutenant Colonel, Doctor); Popescu. P. (Capdidate of medical sciences, Lieutenant Colonel; Doctor) TITIE: Biliary lithiamis, poservations based on 150 cases SOURCE: Revista sanitare militare, no. 6, 1964, 993-1001 TOPIC TAGS: surgery, digestive system disease, internal medicine, digestive system The authors have reached the following conclusions: ABSTRACT: The authors have reached the locality is cholecystic in the child the cholecystic is cholecystic. The child is cholecystic in the child is cholecystic. In regular cases the surgery and postoperative period tectomy. In regular cases the surgery and other complications. proceed smoothly; when septic, mechanical and other complications are present the surgery and postoperative period are more difficult. 3. Acute cholecystitis cases, promptly operated had a much better and rapid recovery than those delayed. 4. Antibiotics are not an actual treatment but only an aid in preparing for operation and in postoperative care. 13 references, mainly Rumanian. Card 1/2

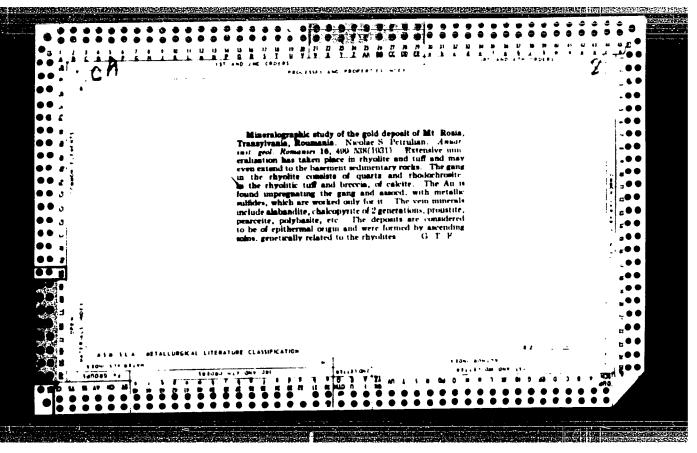
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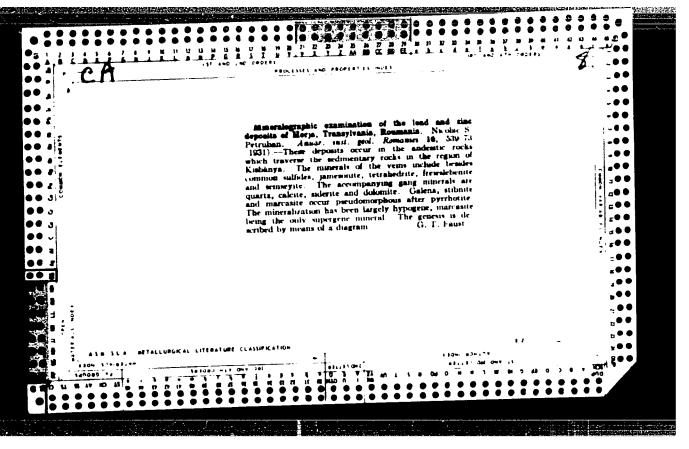
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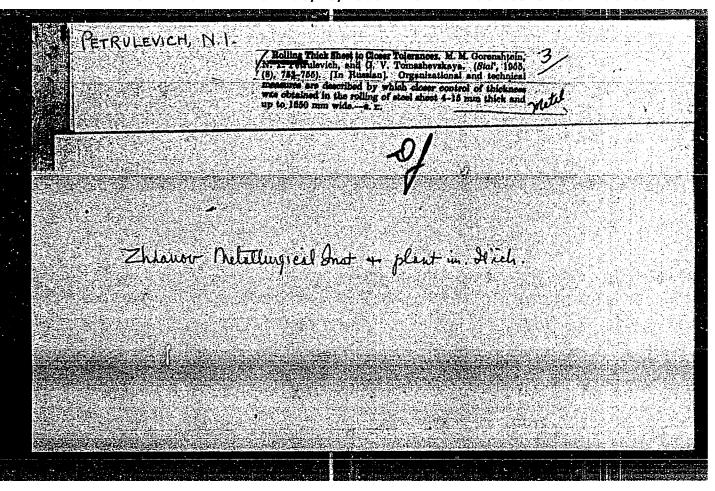












RUMANIA / Cosmochemistry. Geochemistry. Hydrochemistry.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 41928.

Author : Petrulian, N.; Steclaci, L.

: Rumanian Academy. Inst

: Nature of Disposition of Nickel in Ultrabasic Ser-Title

pentinous Rocks in the Sebes Mountains (Southern

Carpathians).

Orig Pub: Bul. stiint. Acad. RPR, Sec. geol. si geogr., 1957,

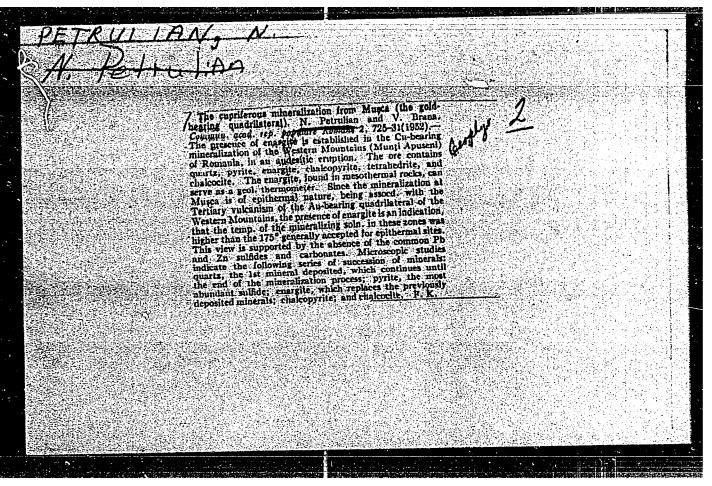
2. No 3-4, 579-603.

Abstract: Serpentinized dunites, hornblendites and other

rocks containing 0.16-0.20% Ni were studied by the microscopic method. The following minerals were identified: chromite, ilmenite, primary magnetite, pyrrhotine, pentlandite, chalcopyrite I, valleriite, chalcopyrite II, secondary magnetite,

martite, bravoite, chalcosine, covellite and

Card 1/2



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CERVINSKAS, E., rod. toma; BIELIUKAS, K., glav. rod.; CHOMSKIS, V., red.; GUDELIS, V., red.; KAUSYLA, K., red.; MARKELYTE, S., red.; PETRULIS, J., red.

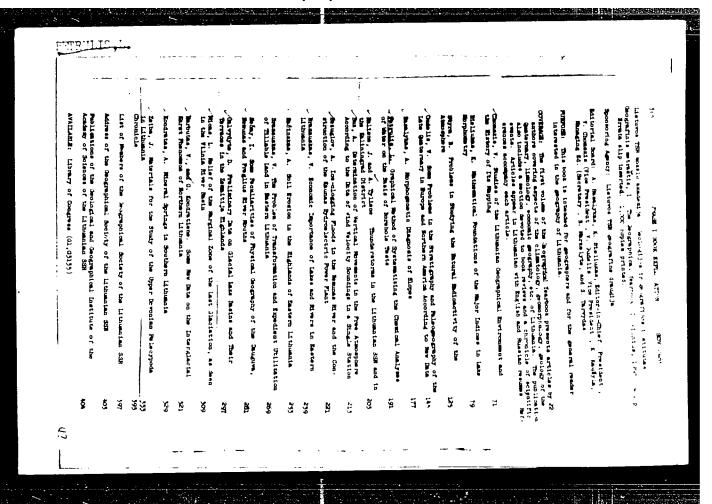
[Geographical yearbook]Geografinis metrastis. Vilnius, Lietuvos TSR Geografine draugija. No.4. 1961. 453 p. (MIRA 15:9)

(Lithuania-Geography-Yearbooks)
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KAULAKIS, L.; DABUZINSKAS, K.; PUCDZIUKINAS, A.; GUDELIS, L.;
BASKYS, V.; PETRULIS, K.; GREBLIKAS, P.; PETRUSEVICIUS, V.;
SITEUS, A., red.; BAFCEVICIUS, F., tekhn. red.

[Electrification of agriculture] Zemes ukio elektrifikevinas.
Vilnius, Valrtybine politimen in mokslines literatures leidykla,
1961. [41 p. (MIRA 15:3)

(Lithuania—Electricity in agriculture)



PETRULIS, L.

Quaternary deposits of Vilna and its environs.

p. 101. (Mokslimiai Pranesimai) Vol. 4, 1957, Vilmius, Lithuania

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

GRIGOR'TEVA, C.G. [Hrybor'ieva, H.H.], student geal.-geograf.fakul'etu;
PETRUB', F.O., nauchnyy rukovoditel', dota.

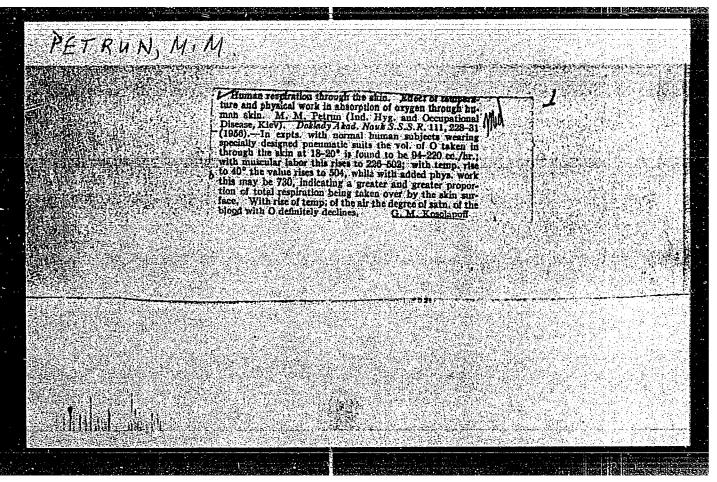
Studies on Odessa Province from 1917 to 1957, Pratsi Od.in.
Zbir.stud.rob. 149 no.5:141-143 '59. (MIRA 13:4)

1. Odesskiy gosudarstvennyy universitet.

(Odessa Province)

PETRUN', F.Ye.

New materials, unused in science, on the southern boundary line of forests in the right-bank area of the Ukraine; interfluve between the Southern Bug and The Dnieper. Trudy Od. un. 152. Ser. geol. i geog. maken (MIRA 1977)



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Bffect of acffeine on the secretion of carbon dioxide through human skin. Fiziol.zhur. [Ukr.] 1 no.2:108-112 Mr-Ap '55.

(MIRA 9:9)

1. Kiiva'kiy institut gigiyeni pratsi i profzakhvoryuvan'.

(CAFFEINE-PHYSIOLOGICAL EFFECT)

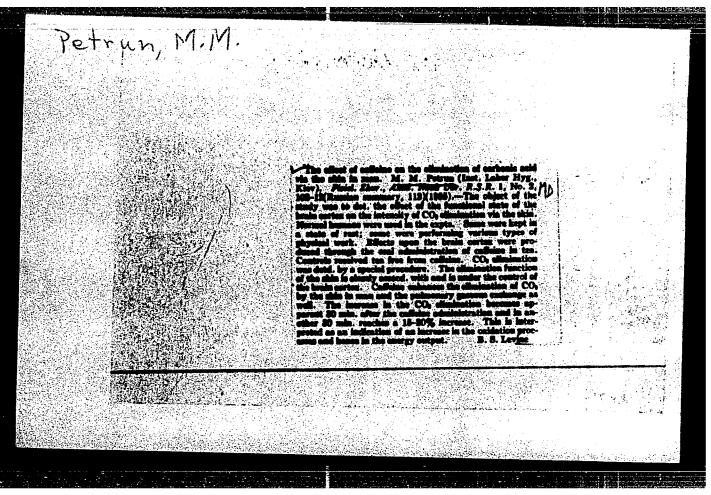
(CARBON DIOXIDE) (SKIN)
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PETRUM', N.M., doktor biolog. nauk

Role of respiration through the skin. Fel'd. i akush. 28 nc. 8:

37-39 Ag 63 (MIRA 16:12)

1. Iz Kiyevksowo instituta gigiyeny truda 1 professional nykh
zabolevaniy.



PETRUN', N.M.

Tissue respiration changes during various stages of heptachlor poisoning in animals. Farm. i toks. 26 no.4:488-494 J-Ag'63 (MIRA 17:4)

l. Laboratoriya biokhimii Kiyevskogo instituta gigiyeny truda i professional'nykh zabolevaniy.

PETRUE', N.M., kand.biol.nauk

Respiration of the skin in different CO₂ concentrations of the air. Vrach.delo no.81837-838 Ag '58 (MIRA 11:8)

1. Kiyevskiy institut gigiyeny truda i professional'nykh sabolevaniy.
(SKIN)
(CARBON DIOXIDE_PHYSIOLOGICAL EFFECT)

Cutaneous respiration in man, as affected by increased concentrations

of oxygen, carbon dioxide and nitrogen. Dokl. AN SSSR 118 no.3: 611-613 Ja '58. (MIRA 11:4)

1. Predstavleno akademikom L.A. Orbeli. (RESPIRATION) (SKIN)

PETRUN N. M.

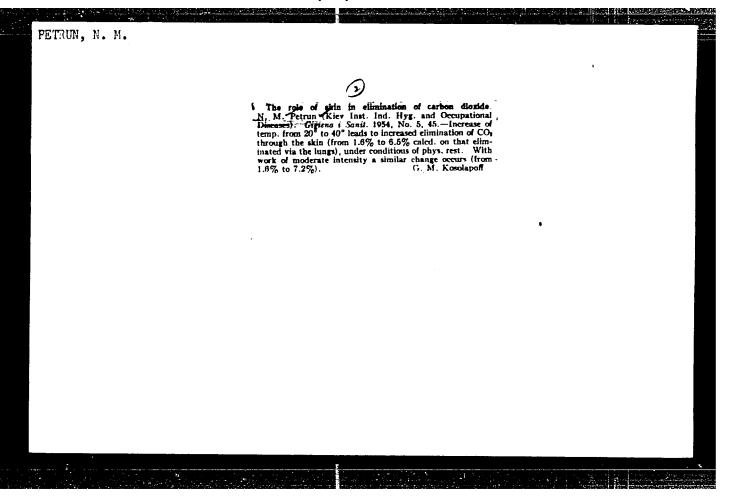
X

Inst. ind. Hyg. and ind. Dis., Kiev. *Resciration through the human skin. Effect of temperature and physical work on excretion of carton dioxide through human skin. (Russian text) DOKLARY AKAL. NATK SSSR 1953, 93 (745-743)

It is shown that in the determination of heat production by the human body it is necessary to add to the CO₂, eliminated via the lungs, the amount of about 1.6% at normal conditions or 6.5% at higher temperature (40°) which represents the contribution of the skin as an elimination or an. During active physical work this factor rises to as high as 7.2%.

(II, 1?)

SO: EXERPTA MEDICA, Section II Vol. 7 No. 11



PETRUN', N.M.

Cutaneous respiration in man. Effect of temperature and physical work on oxygen absorption through the skin. Dokl.AN SSSR 111 no.1: 228-231 M-D 156. (MIRA 10:2)

1. Kiyevskiy institut gigiyeny truda i profzabolevaniy. Predstavleno akademikom L.A.Orbeli.
(RESPIRATION) (SKIN)

PETRINI N.M. kandidat biologicheskikh nauk

Effect of high oxygen concentrations on cuteneous respiration in man. Vrach.delo no.7:735-737 J1 '57. (MIRA 10:8)

1. Kiyevskiy institut gigiyeny truda i professional'nykh zabolevaniy (RESPIRATION) (OXYGEN)

PETRUN', N.M.

Some peculiar features in the cutaneous respiration of man according to the skin area. Dokl. AN SSSR 114 no.4:904-907 Je '57.(MIRA 10:9)

1. Kiyevskiy nauchno-issledovatel'skiy institut gigiyeny truda i professional'nykh zabolevaniy. Predstavleno akademikom L.A. Orbeli.

(SKIE) (RESPIRATION)

PETRUN N M

AUTHOR:

Petrun', N. M.,

20-3-50/59

. TITLE:

The Influence of Increased Concentrations of Oxygen, Carbon Dioxide and Nitrogen on Human Cutaneous Respiration (Vliyaniye povyshennoy kontsentratsii kisloroda, uglekisloty i azota na dykhaniye cheloveka cherez kozhu)

PERIODICAL:

Doklady AN SSSR, 1958, Vol. 118, Nr 3, pp. 611-613 (USSR)

ABSTRACT:

This influence was investigated only very insufficiently. The author studied the influence of gas concentration at the chest, the stomach and the thigh (front) of five practically healthy patients. The methodology was especially worked out by the author. The patients were in the state of rest at a temperature of 180 to 20° . The first of the four test series served as a control, the second investigated the influence of 0_2 , the third that of 0_2 , and the fourth that of 0_2 . Table 1 shows that the skin of all these three parts of the body absorbed 0_2 and separates 0_2 . The respiration was most intensive at the stomach, weaker at the chest and faintest at the thigh. The amounts of 0_2 and 0_2 were about the same. In the second 0_2 test series the concentration of 0_2 was 0_2 to 0_2 . The 0_2 absorption through the skin was

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The Influence of Increased Concentrations of Oxygen, Carbon 20-3-56/59 Dioxide and Nitrogen on Human Cutaneous Respiration

now incressed by 43,7 times whilst only 1,38 times more CO2 was separated. This incidentally applied to all parts of the skin. Analogou. cutaneous respiration can be observed when the total surface of the body rests in a high concentration of O2. A comparison with lung respiration showed an absorption of 29,86% O2 whilst only 0.5% CO2were eleminated through the whole of the skin. So it is possible in this way to increase the supply of 0_2 and to raise the efficiency of the organism (references 4,5,13). The supply of 02 through the skin can also be more effective than the subcutaneous way. The results of the third (CO2) test series confirmed the statements that the accumulation of CO2 under the clothing at different temperatures can create different disturbances within the organism (references 1,3,14-17,. At concentrations of 80% to 85% CO2 it is no longer separated through the skin but absorbed. With this oxygen is separated. Such a "reverse" gas exchange was observed with all patients, it was dissimilarly intense at separate parts of the skin. In the forth (N2) series it was demonstrated that at a 92% to 95% nitrogen concentration O_2 as well as CO_2 are eliminated whilst N_2 is absorbed. This was most intense at the stonach, weakest through

Card 2/5

The Influence of Increased Concentrations of Oxygen, Carbon 20-3-56/59 Dioxide and Nitrogen on Human Cutaneous Respiration

the skin of the thigh. In all cases the quantity of O2 eliminated was 6 to 7 fold that of CO2. This difference may be explained by the considerable difference of the partial pressure of these gases in the blood and in the surrounding air. It has often been referred to the nitrogen absorption through the skin, and to its toxic effect, if N_2 is in overpressure (references 6,10, 11). The statements above demonstrate that the process of gas exchange through the skin is diffusionlike and is caused by the partial pressure mentioned above. There is no difference between its mechanism and th t of lung respiration. With the investigated changes of the gas surroundings all topographical pecul_arities of the respiration were maintained. All this shows that under unusual conditions the human organism should be protected not only by a gas mask but also by protecting clothes against skin contaminations. There are 1 table, and 19 references, 9 of which are Slavic.

card 3/4

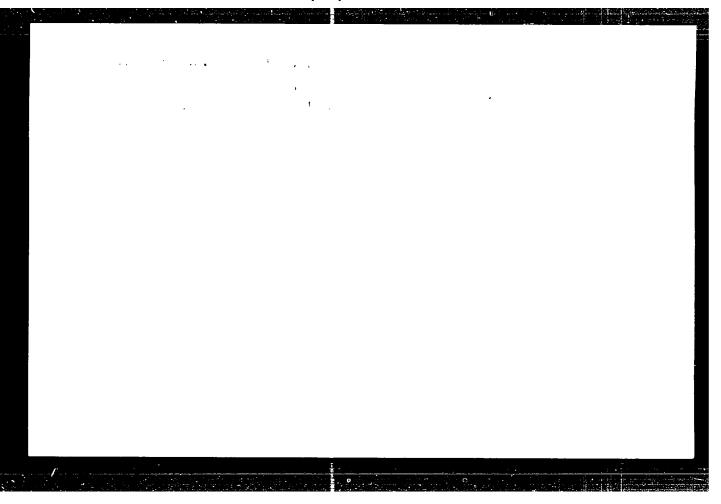
The Influence of Increased Concentrations of Oxygen, Carbon 20-3-56/59 Dioxide and Nitrogen Cutaneous Respiration

PRESENTED: September 18, 1957, by L.A. Orbeli, Member of the AN USSR

SUBMITTED: September 17, 1957

AVAILABLE: Library of Congress

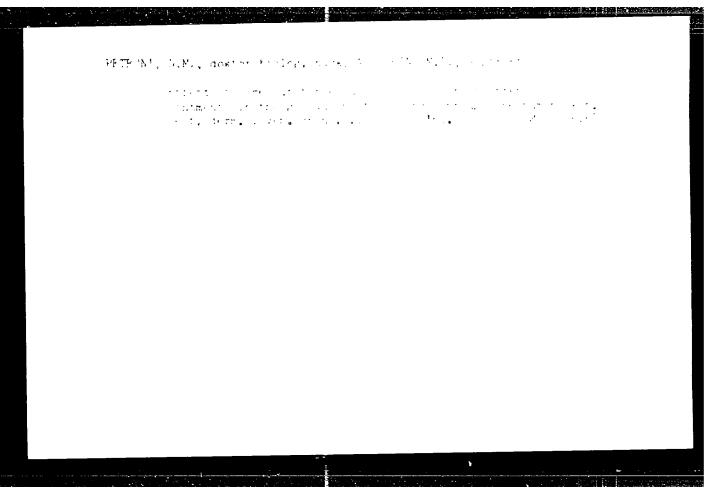
Card 4/4



DOLNITSKY, O.V.; PETRUN, N.M.; SHURINOK, A.R.

Oxygen saturation of skin graft and recipient zone for improving the take. Acta chir. plast. (Praha) 7 no.4: 303-309 '65.

1. Bogomolets Kiev Medical Institute (Director: Prof. V.D. Bratus) and Kiev Scientific Research Institute of Occupational Hygiene and Diseases, Kiev, USSR (ector: Prof. L.I. Medved).



Reflect of increased oxygen concentration on the respiratory function. Vrach.delo no.11:101-104 N '62. (MIRA 16:2)

1. Laboratoriya biokhimii Kiyevskogo instituta gigiyeny truda i professional'nykh zabolevaniy.

(OXYGEN--PHYSIOLOGICAL RFFECT) (RESPIRATION)

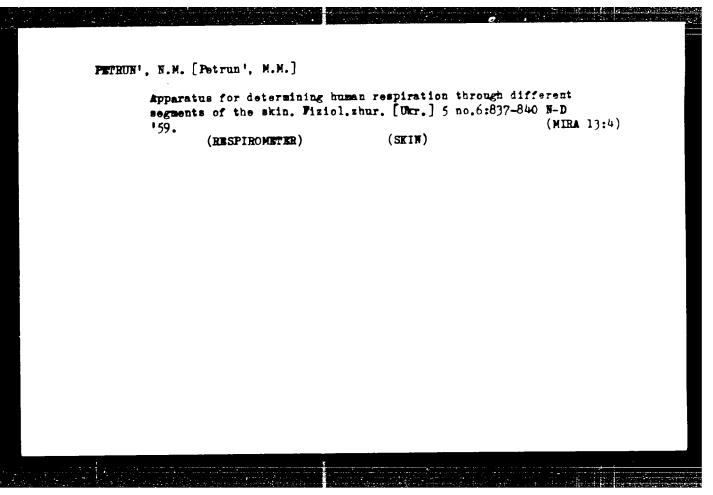
PETRUN', H.M. (Kiyev)

Effect of baremetric pressure on human respiration through various skin areas. Gig. trude i prof. sab. 4 no.3:54-55 Mr '60.

(MRA 15:4)

1. Institut gigiyeny trude i professional nykh sabolevaniy, Kiyev.

(ATMOSPHERIC PRESSURE—PHYSIOLOGICAL EFFECT) (RESPIRATION)



PETRUN', N.M.

Some features of cutaneous respiration in children of different ages. Fiziol.zhur. 47 no.8:939-941 Ag '61; (MI.A 14:8)

1. From the Biochemical Laboratory, Institute of Occupational Hygiene and Professional Diseases, Kiyev.
(SKIN) (RESPIRATION) (CHILDREN)

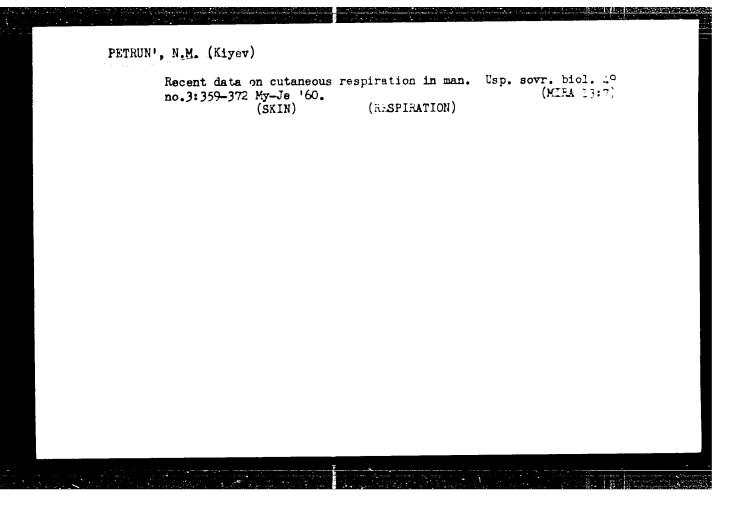
PETRUN', N.M.; KORNIYENKO, Z.A.

Transcutaneous respiration in subjects suffering from certain dermatoses. Vest. derm. 1 ven. 34 no.4:33-36 '60. (MIRA 13:12) (SKIN--DISPASES)

(RESPIRATION)

PETRUN'. Nikoley Mikhaylovich; USPENSKIY, V.I., red.; LYUDKOVSKAYA, N.I., tekhn. red.

[Ges exchange through the skin and its importance for the human organism]Gezoobman cherez kozhu i ego znachenie dlia organizma cheloveka. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1960. 176 p. — (MIRA 14:5) (RESPIRATION) (SKIN)

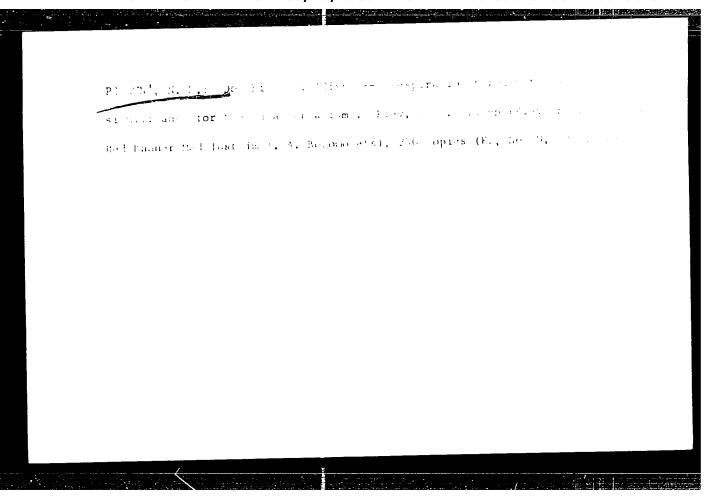


PETRUN, N.M.; KORNIYENKO, Z.A.

Skin respiration in patients with psoriasis. Vrach.delo no.4:
397-399 4p '60. (MIRA 13:6)

1. Kiyevskiy nauchno-issledovatel'skiy institut gigiyeny truda
i professional'nykh zabolevaniy i Kiyevskiy gorodskoy kozhnovenerologicheskiy dispanser.

(PSORIASIS) (RESPIRATION)



SOV/20-114-4-62/63

AUTHOR:

Petrun', N. M.

TIPLE:

Some Peculiar Features of Human Respiration Through Various Sections of the Skin (Nekotory, e osobennosti dykhaniya cheloveka cheren raz-

PERIODICAL:

Do lady AN SSSR, 197, Vol. 114, Nr 4, pp. 904 - 907 (USSR)

ABSTRACT:

In earlier papers the author (references ?, 0) stated that on the average 174,6 cm² 0, are absorbed and 174,0 cm² 00, are per hour smarated by the human skin in the state of rest. Temperature and the work of muscles influence this process. We published lata on the topographical popularities of the intire outaneous respiration were found to exist. From the fragmentary date on this problem may be concluded that the respiration through the individual sections of skin takes a different course. The determination of this problem is of interest from the standpoint of the industrial and agricultural toxicology. For the investigation served 10 (6 men and 4 women) practically healthy persons in the state of rest (lying on their back or stomach) at a temperature of 20 - 25 °C. An apparatus of the investigation of the intensity of respiration through the

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soy/20-114-4-62/63

Some Peculiar Funtures of Human Regiration Through Various Sections of the Skin

skin and their comparison with data on the pulmonary respiration are given in table 1. The highest gas-exchange (124,65 cm2, hour of absorbed 0, and 125,52 cm²/hour of separated CC₂, calculated for 1 m2 of ekin) took ; luce on the abdomen. The inmensity decreased in the following orders back, thorax, loins, thigh, forearm and hand, shank and foot. Small variations of the values of the gas--exchange were determined, increases as well as decreases. The women had higher gas-exclange values on the abdomen and thorax than the men, in other places the values were equal in both sexes. Thus the intensity of respiration decreases in the direction towards the periphery, i.e. the extremities. From the Given data the cause of the disagreement of the values of Co and CO, given for the cutanecus respiration by individual authors (references 2, 11-13, 17-19, 21, 22) also becomes clear. They did not take count the topographical peculiarities of the gas-exchange. The comparison of the respiration through individual sections of the skin with the pulmonary respiration made by the author showed that the cutaneous respiration on abdomen, back and thorax in the state of rest is more immensive than the pulmonary respiration. The cutaneous respiration on the loins is equal to the pulmomary respiration. All other sections of the skin breathe less intensively than

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SOV/20-131-1-62/63

Some Peculiar Features of Human Respiration Through Various Sections of the Skin

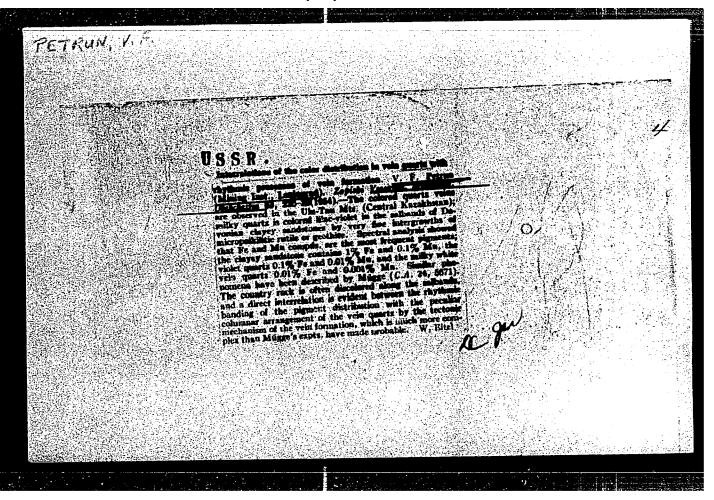
the lungs. It was not possible to discover any rules governing the agreement between the number of sweat glands in individual sections of the skin and the intensity of the respiration of these sections. As the sweat glands (according to Kuno, reference 3) may be divided into active and passive ones, the test of Minor was performed. The results showed a dependence of the gas-exchange on the activity of the sweat glands. Besides a complete agreement of the individual peculiarities of the cutaneous respiration of individual sections of the skin with the individual peculiarities of perspiration was determined. The intensity of respiration was also higher in sections of the skin with higher temperature. Based on the different intensity of respiration of individual sections of the skin a different susceptibility of these places toward various gaseous substances may be assumed. There are 1 figure, 1 table, and 23 references, 11 of which are Slavic.

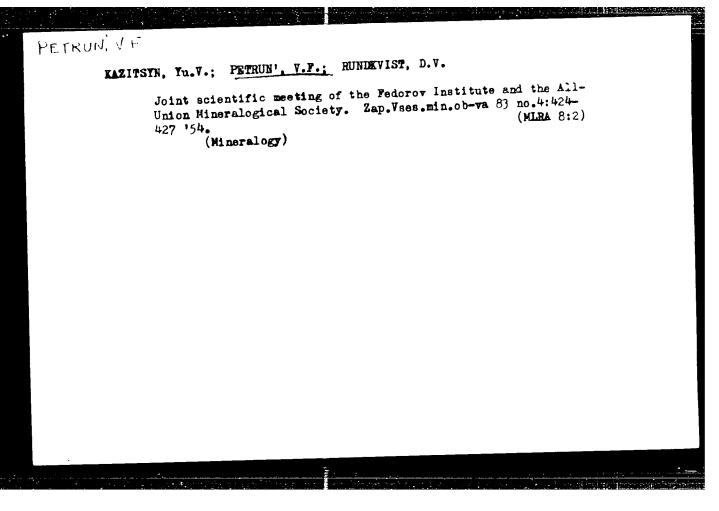
Card 3/4

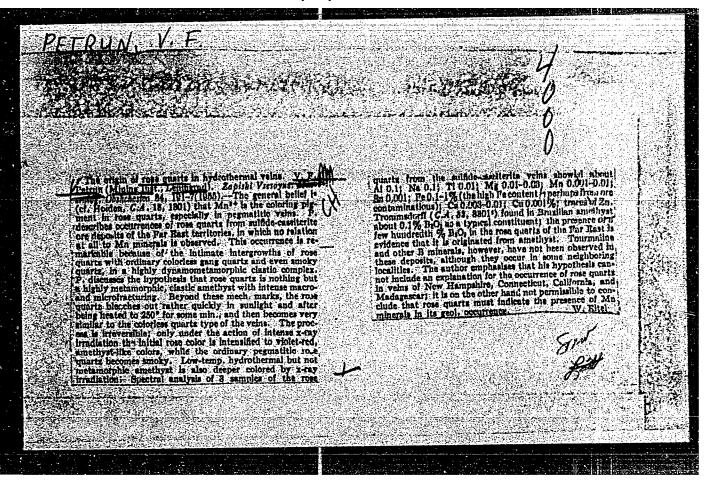
Some Peculiar Features of Human Respiration Phrough Various Sections of the Skin ASSOCIATION: Scientific Research Institute for Labor Hygiene and Occupational Diseases, Kiyev (Kiyevskiy nauchno-issledovatel'skiy institut riciyeng truda i profession.l'nykh rabolevanig)

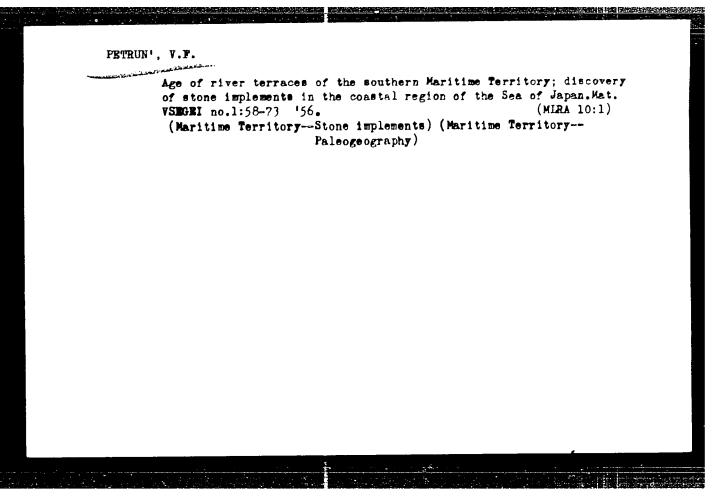
PRESENTED: January 15, 1957, by L. A. Crheli, Academician

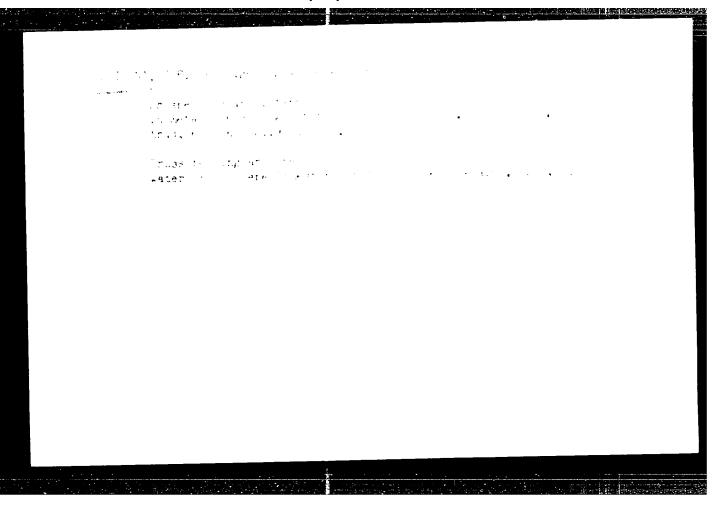
SUBMITTED: December 4, 1956











FETRUN', V.F., kand.geologo-mineral.nauk

Some petrographic features of olivine diabases from the Ingulets
River. Sbor. nauch. trud. KGRI no.7:85-95 '59. (MIRA lo:9)
(Ingulets River--Olivine diabase)

RECORDS, N.E., KAND veolumineral, name, dotsent, BELONRYS, L.S.

Recrystallization of Pontian line tones of the southern Twrsine
Thor name in trial KaRi noulties to but, (MTRA 16 8)

(Kraine - Limestone)

PETRUN', V.F.

Amethyst in the weathering surface of the Iakovlevskoye iron-ore deposit in the Kursk Magnetic Anomaly. Kora vyvetr. no.5:65-67 (63. (MIRA 16:7)

1. Krivorozhskiy gornorudnyy institut. (Kursk Magnetic Anomaly—Amethysts)

FETRUN', V.F., kand. geol.-mineral. mank, dotsent

Stratigraphic analogy of Krivoy Rog talc schists to the
Yakovlevo deposit in the Kursk Magnetic Anomaly. Sbor. nauch.
trud. KCRI no.13:41-47 '62. (MIRA 16:8)

(Kursk Magnetic Anomaly-Geology, Stratigraphic)

PETRUN', V.F.; PIROGOV, B.I.

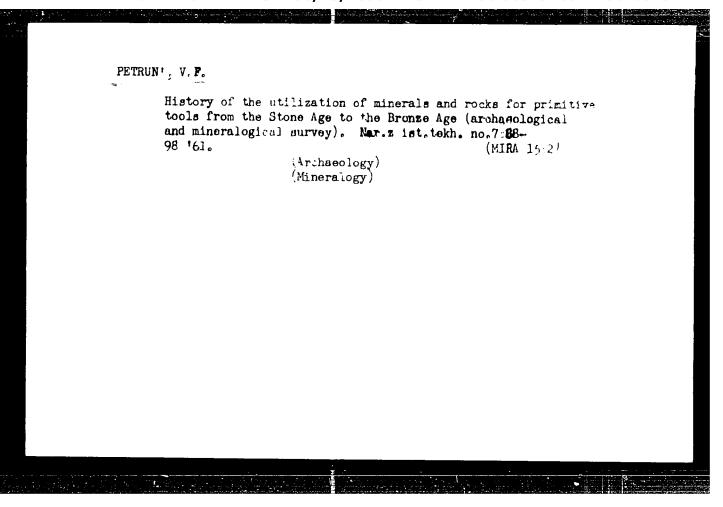
Formation of karst-suffosion caverns in iron ore rocks of the Krivoy Rog Basin. Izv.vys.ucheb.zav.; geol. i razv. 5 no.5:26-33 My '62. (MIRA 15:6)

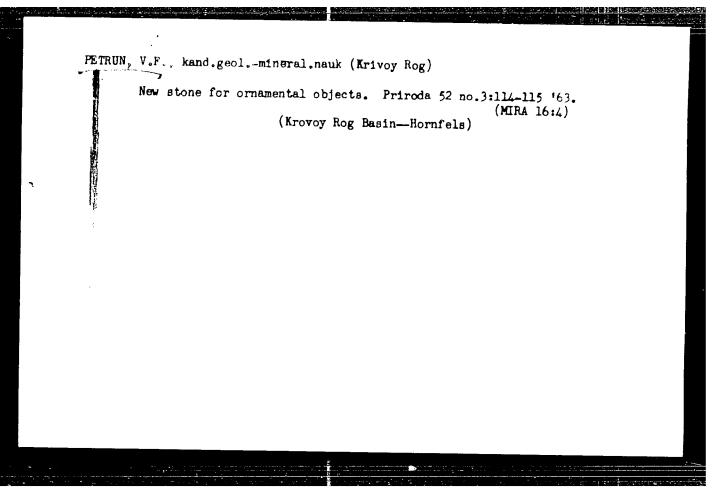
BELOKRIS, L.S.; PETRUN', V.F.

Origin of the exotic boulders in the Pontain sediments in the southern Ukraine. Izv. vys. ucheb. zav.; geol. i razv. 4 no.3:
126-128 Mr '61.

(Ukraine—Boulders)

(Ukraine—Boulders)





Archaeological study method recommended to geologists for use in the Crimean Mountains. Trudy Kom.chetv.per. no.26:161-167 '61.

(KIRA 15:3)

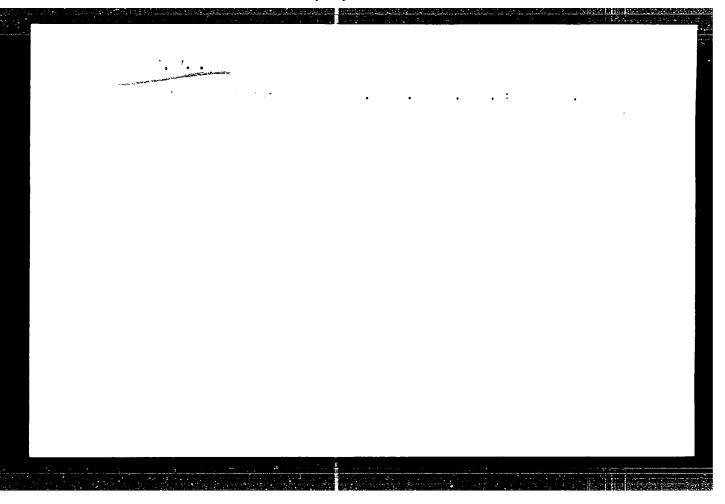
(Crimean Mountains--Geological surveys)

_PETRUNI, V.F. Thin needle-shaped cassiterite from the southern Maritime Territory. Geol.rud.mestorozh. no.4:95-97 Jl-Ag '61. (MIRA L.:10) 1. Krivorozhskiy gornorudnyy institut. (Maritime Territory.—Cassiterite)

Tiger's eye and griqualandite from the Krivoy Rog Basin. Zap. Vses. min. ob-va 89 no.5:564-570 '60. (MIRA 13:10) 1. Krivoroshskiy gornorudnyy institut. (Krivoy Rog Basin—Amphibole)

Using archaeological data in geological prospecting. Sov. geol. 2 no.9:124-131 S '59. (MIRA 13:2)

1. Krivoroshekiy gornorudnyy institut. (Prospecting) (Archeology)

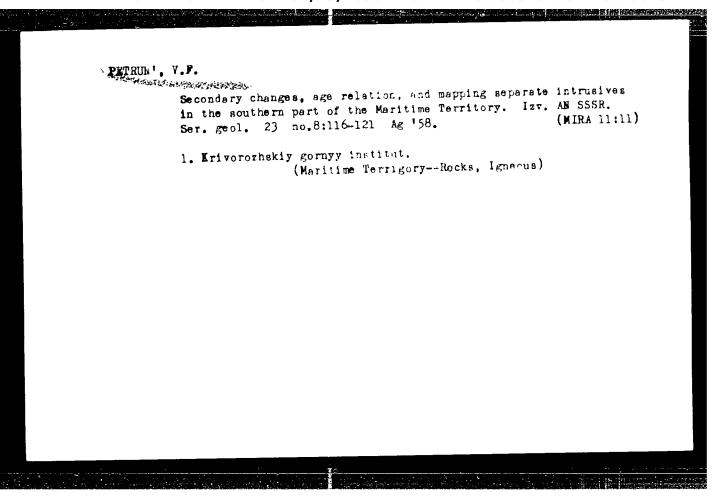


PERRUN! , V.F.

Two types of calcite druses in the Fontian recrystallized limestones of the right bank of the Ingulets River. Zap. Ukr. otd. Min. ob-va [no.1]:132-136

Efficient replacement of the illuminating device of microscopes for studying one in a research or student mineragraphic laboratory. Ibid.: https://doi.org/10.1007/10.

l. Krivorezhskiy gornorezhyj institut, kafedra mineralogii, petregrafii i peleznykh iskopayemykh.



15-1957-3-2806

Translation from: Referativnyy znarnal, Reologiya, 1957, Nr 3,

p 42 (USSR)

AUTHOR:

Petrun', V. F.

TITLE:

The Problem of the Age of the Stream Terraces in Southern Primor'ye (A Discovery of Stone Implements on the Shore of the Japanese Sea) \sqrt{K} voprosu o vozraste recnnykh terras yuzhnogo Primor ya (nakhodka kamennykh orudiy

na poberezh'ye Yaponskogo morya)/

PERIODICAL:

Materialy Vses. n-i, geol in-ta, 1956, Nrl, pp 58-73

APSTRACT:

A workshop of apparently ancient stone implements was discovered in a constricted place on the Tadushi River (on the eastern slope of the Sikhote-Alin' Range) below Ustinovka, 30 km from the sea shore. Its traces are found in a soil layer and in diluvial (creep and slope wash) sandy clay 0.5 m thick. This material forms the upper part of a 10 to 12 meter terrace and of the sur-

Card 1/3

face and eastern slope of a prominence on which the

The Problem of the age of the Stream Terraces in Southern Primorize (A Discovery of Stone Implements on the Shore of the Japanese Sea)

ified tuff and volcanic glass by ancient man was characteristic of Java, Burma, northern Manchuria, and other regions of the Far East. This fact demonstrates the existence of a widely known and well-developed habit of working volcanic material. The time of formation of the 10 to 12 meter terrace is correlated with the Ching-Shui erosion stage (of China). The time of accumulation of the sandy clays on the terrace surface is referred to the Malan stage (Magdalenian?) -- the time of settling of the ancient Magdalenians in the upper cave of Shuitungkou in northern China. Consequently, the time of formation of the 10 to 12 meter terrace (the time of accumulation of the alluvium, formation of the prominence, and development of the deluvium) is determined to be middle-upper Pleistocene. The position of the older material on the prominence leads to its correlation with deposits of earlier times at the Verkholenskaya Gora, Osinovka, and Khabarovsk sites. Card 3/3

L. P. A.

FETRUN', V.F., dotsent, kand.geologo-mineralogicheskikh nauk

Geological significance of the discovery of pseudotachylyte near the
Krivoy Rog Basin. Sbor. nauch.trud. Küki no.20(3):40-44 '63.

(MIRA 16:9)

SCV-11- - -. Petran', V.F. Secondary Transferentia to, 3 de April 1999 10 ' AUTHOR: Peculiarities of Majjing the Efficance Form to the TITLE: Southern Part of Mailtine Ingvinces (Cost in 1997) niyakh, nekotorya, voznactnyah varamenth chenayari nostych. Rertirovaniya stiellnyku effuziwijar tr. 100 Yuzinere Primertya) Izvertija Arademia nask COSK, Sersya Georgia (1986) e. . Nr 8, FF l.c-121 (USSR) PERIODICAL: This is an answer to lite low published by M.A. Parks [Ref 5, 1, 7] and the article in Mr 7 (1957), this is larger the title "On Some describing Transfer of the 1977 and the second sec ABSTRAUT: Effucives of the Softern Part of the Maintine Point describing the efficiency like one formation the Sea of Japan. The other field that proin that region gave quite hills must be a live of the classification of different effactive to be of have undergone transfers to he see to the way see He also represents M.A. Favorskaga, in the pare the results of her fighling with the book. gallagists. Card 1/2

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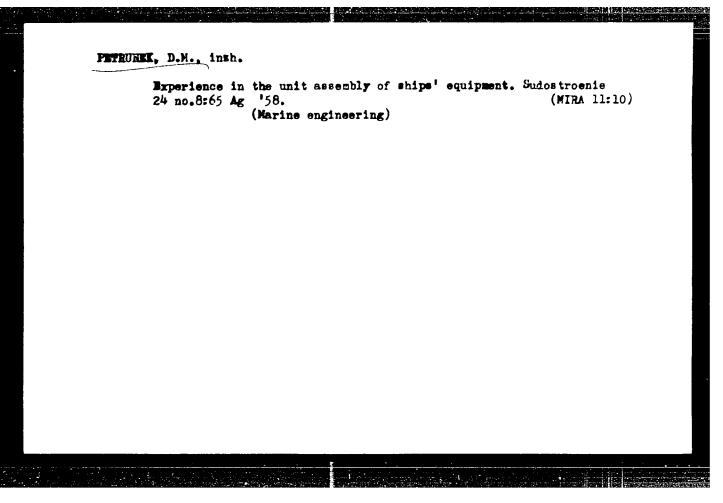


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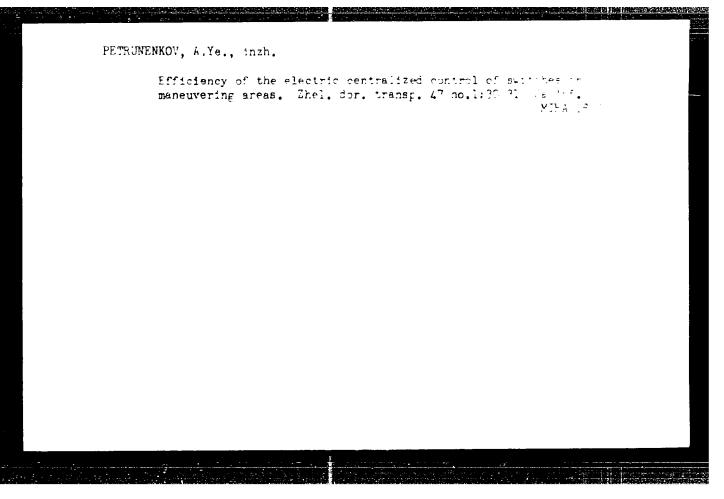
SADIKOV, P.P.; LEBELEVA, T.P.; KORSH, V.B.; BELENOV, V.K.; FETRUNENKOV, A.Ya.;
PISHKOV, L.B.; ASHIKHMIN, A.K., inzh., retsensent; FREDE, V.IU.,
mah., red.; VOROTNIKOVA, L.F., tekhn.red.

[Technological equipment of railroad stations] Tekhnicheskoe
osnashchenie stantsii. Moskva, Transsheldorizdat, 1963.

153 p. (MIRA 16:6)

(Railroads—Stations)

(Railroads—Equipment and supplies)



LEBFDEVA, T.F.; STRAKOVSKIY, I.I., TISHKOV, L.B.; LOMAKINA, N.N.,

ZABELLO, M.L., JADIKOV, P.P., PETRUNENKOV, A.Ye.; BELFNOV, V.K.;

ARUTYUNOV, V.A., inzh., retsenzen: PETROVA, V.L., inzh., red.;

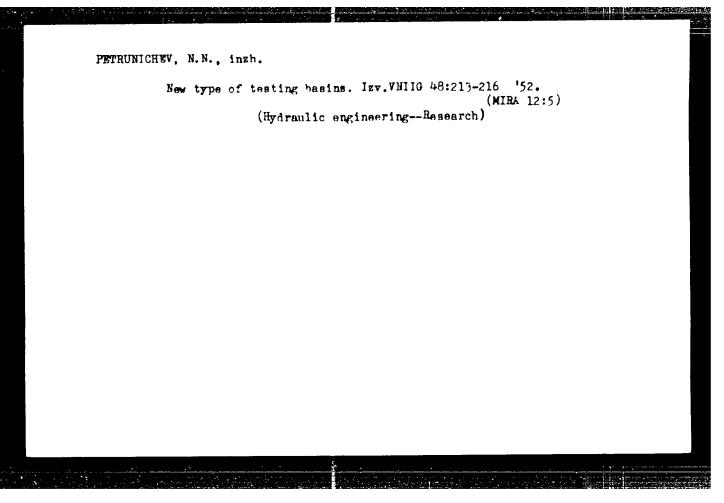
BOBROVA, Ye.N., teknn.red.

[Basic requirements related to the technical equipment of classification yards] Osnovnye trebovanila k tekhnicheskomu osnashchenilu sortirovochnykh stantsil. Moskva, Transzheldorizdat, 1963. 218 p. (Ita TRUDI, nc. 270). (MIRA 17:1)

Electromechanical conveying of documents. Zhel. dor. transp. 45 no.3178-80 Mr '63. (MIRA 16:6) (Railroads—Communication systems) (Conveying machinery)

BIBIKOV, D.N.; PETRUNICHEV, N.N. Prinimali uchastiye: DOBROVOL'SKAYA, V.K., nauchnyy sotrudnik; PEKHOVICH, A.I., nauchnyy sotrudnik. SHADRIN, G.S., red.; ZABRODINA, A.A., tekhn.red.

[Difficulties caused by ice at hydroelectric power stations; planning measures for their elimination] Ledovye zatrudneniie na gidrostantsiiakh; proektirovanie meropriiatii po okh ustraneniiu. Leningrad, Gos.energ.izd-vo. 1950. 158 p. (MIRA 12:11) (Hydroelectric power stations) (Ice on rivers, lakes, etc.)



FETRUNICHEV, Bikoley Nikoleyevich; GIRSHKAN, I.A., red.; FEL'ESHTEYN, B.S., tekhn.red.

[Unsteady flow of water in natural channels] Neustanovivaheesia dvizhanie vody v estestvennykh ruslakh. Moskva, Gos.energ. izd-vo, 1960. 70 p. (MIRA 14:2)

(Hydrodynamics)

```
PETRUNICHEV. N.N., starshiy nauchnyy sotrudnik, kand.tekhn.nauk

Heat calculations in planning vater intake structures on rivers
with extremely icy conditions. Izv. WHIIG 63:27-40 '60.

(MIRA 14 5)

(Ice on rivers, lakes, etc.) (Hydraulic structures)
```

PETRUNICHEV, N.N., kand.tekhn.nauk; PERHOVICH, A.I., kand.tekhn.nauk;
ZHIDKIKH, V.M., inzh.

Coordination of research work in the field of ice engineering.
Gidr.stroi. 32 no.7:61 Jl 162. (MIRA 15:7)

(Ice on rivers, lakes, etc.)

Li 6617-65 Mar(m)/EPF(b)-2/EPR/Bap(k)/Bap(q)/Bap(b) PI-1/Ps-1/Ps-1 SSD/AFWL/ ABDC(b)/ASD(p)-3/AFETR/ESD(si)/ESD(t) 3D/30 ACCESSION NR; AP4043926 5/0279/64/000/004/0166/0166 AUTHOR: Kulagin, I. D. (Hoscow); Kudinov, V. V. (Hoscow); Petruni-TITLE: Refractory and active metal powders, with globular particles SOURCE: AN SSSR. Izv. Metallurgiya i gornoya delo, no. 4, 1964. 166-166 TOPIC TACS: metal powder, refractory metal powder, active metal powdar, globular particle powder, powder particle size, plasma jet, argon plasma jet, plasma jet atomizing, plasma jet metal atomizer ABSTRACT: - A method for making refractory and active metal powders with globular particles which are suitable for making porous parts operating under conditions of high temperature, high gas velocities, and in corrosiva media is suggested. Equipment was designed on the basis of experiments with tungsten p molybdenum; tantalum; piobium, titanium, and tungsten-hafnium alloys. According to this method a wire is salted and atomized by a plasma jet. Liquid particles blown by the hot jet acquire, under the effect of surface tension, the shape of a globule. This method yields powders which contain 18% of par-Cord 1 / 2

	WR: AP40435	—315 μ; 412, 315—250 μ; :		Ž.
can be inc globules c tory metal ranging fr conditions	reased to 61 orresponds to 11 is possion tenths 1t was foun	er 63 µ. Density of loose -642 by shaking. Chemical o that of the wire used,] ble to obtain globular pari of a micron to dozens of mi d possible to produce holic particles in a finished pro	powder is 582 and composition of n processing refracticles of a size crons. Under certain y globular particles.	
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KULAGIN, I.D., kand.tekhn.nauk; PETRUNICHEV, V.A., kand.tekhn.nnuk; NIKOLAYEV, A.V., inzh.

Investigating cutting by an arc-plasma jet released from an arc column. Svar. proizv. no.5:1-4 My '61. (MIRA 14:4)

1. Institut metallurgii imeni A.A.Baykova AN SSSR. (Electric metal cutting) (Plasma (Ionized gases))

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PETRUNICHEV, V.A., insh.

Pressure of a high-power arc on the weld beth. Swer. proizv.

no. 7:14-17 '58. (MIRA 11:7)

1. Institut metallurgii imeni A.A. Baykova AN SSSR.

(Electric welding)
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ire di Auroli i Petrunichev, V.A., Engineer AUTHOR: Pressure of High lower Art on the Selding Path Clayleniye Cost TITLE: bol shoy moshchnosti na svarichnuyu vannu .varochnoye proivvodstvo, 1965, Nr 7, pr 14-17 ". H PERIODICAL: The article gives general information on investigations of arc ABSTRACT: pressure shef. 1,0,7,4,5.8,9) and describes experiments carried out for measuring the arc pressure for currents above FCC amp. For this purpose a special levine, shown in a lingram, lig. 1 was designed with the aid of which measurements of open and and ard under flux were performed. A detailed description of the experiments is given. As a result, it was stated that open are pressure and the pressure of an arc under flux are almost similar, and that there is only a very slight difference, ide to the increase of gas formation from the melting of flux There is 1 diagram, r tables, 4 graphs, and 8 references, 2 of which are Toviet, * German and * English. ASSOCIATION: Institut metallingii imeni A.A. Psykova AV 1 A Institute of Metallurgy imeniA.A. Paykov, A. 1. Electric arcs—Pressure 2. Electric welding—Equipment Card 1/1

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8/137/62/000/001/092/237 A052/A101

AUTHOR:

Petrunichev V.A.

TITLE:

The thermal and mechanical effect of a high-power arc on the weld-

ing bath

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 1, 1962, 5-6, abstract 1E28 (V st. "Protsessy plavleniya csnovn. metalla pri svarke", Mos-

cow. AN SSSR, 1960, 117 - 166)

TEXT: The thermal and mechanical action of the arc was investigated in application to the automatic power arc welding under flux, which is characterized by its night ability to deepen into the base metal. The following phenomena were studied: The effect of the arc deepening on the effectiveness of the heating of the base metal, the pressure of the high-power arc on the welding bath, the heat flow of the powerful deepened welding are under flux, the welding bath, methods of calculating the fusion zone dimensions, the form of the fusion zone outlines. Conclusions: 1) The degree of the nigh-power arc immersion under flux into the base metal increases with the increase of the current, decrease of the arc voltage and of the electrode wire diameter. 2) With the deepening of the arc the Card 1/3

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The onermal and mermant at effect ...

effective efficiency of one workpiese heating increases considerably; the amount of the neat introduced by a fally deepened and over the fusion zone width is by 23% higher than at the surface are welding. 3) The are deepening is connected with its mechanical action and increases with the arc pressure. The pressure of the high-power arc expects to several times the pressure of arcs applied at the manual welding, and is the square function of the current; with the increase of the electrode drameter the and pressure decreases slightly. 4) The heat flow of the deepened welding are is instributed non-uniformly over the fusion surface. The maximum nest flow intensity is observed in the centre of the heating spot and decreases towards its edgest. The heat flow concentration decreases with the inprease of the current, increase of the arc voltage and decrease of the welding speed. 5) The arm despend to the case metal contributes to the fact that the main part of the near flow. Flike the surface and, is applied to the active section of the fusion zens and only a small part to the metal surface beyond the fusion zone limits. F) The data oftained or the heat flow distribution of the deepened are enable one to tribulate the fusion zone dimensions according to the model of the normal-elliptic acures. 7) The malculations by the model of the normal-elliptic test source with an allowance for the additional heat introduced

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The thermal and mechanical effect ...

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by fused metal can be used for determining the thermal cycle of welding in the next-to-seam zone. There are 28 references.

V. Tarisova

[Abstracter's note: Complete translation]

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Card 3/3

SOV/180-59-2-12/34

Yerokhin, A.A., and Petrunichev, V.A. (Moscow) AUTHORS:

Kinetics of the Fusion and Electrode-Metal Transfer TITLE:

Process in Arc Welding (Kinetika protsessa plavleniya i

perenosa elektrodnogo metalla pri dugovcy svarke)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 2, pp 70-77 (USSR)

(+ 1 plate)

ABSTRACT: In this investigation shadow cine-photography, with a type SKS-1 camera and a Jupiter II teleobjective was used to study the working zone in arc welding. A 3 kW lamp and a condenser were used for illumination, with red and

blue-green filters to reduce arc brightness.

photography was carried out by LAFOKI. The active spot in the electrode and the arc flame are shown in Fig 1, while Fig 2 shows secondary effects. That changes occur with time is shown in high speed sequences in Figs 3, 4 and 5, illustrating respectively, the behaviour of a drop on the electrode, of metal being transformed by short-circuiting and of metal being transferred dropwise. The

nature of the electrode-wire steel influenced the effects. X-ray photography showed that contrary to the views of

Card 1/3 V.A. Lapidus, the drops in transfer are not hollow (Fig.).

SOV/180-59-2-12/34

Kinetics of the Fusion and Electrode-Metal Transfer Process in Arc Welding

Arc length was found to be the main factor governing the form of transfer. The authors go on to discuss, on the basis of heat evolution, the kinetics of drop growth and transfer from electrode to seam. Although they could not determine directly drop weight from their photographs, they were able to deduce the rate of change of drop weight; and this, coupled with indirect determinations of initial drop weight, led to the weight vs time relation (Fig 7, Table 1). This confirmed that the rate of electrode melting decreases with drop growth and showed the irregularity of the whole process. Pigs 8 and 9 show the distribution of drops with their time of existence for different currents and voltages, respectively. In their discussion of the effect of the nature of metal transfer on electrode melting they give some results of measurements with electrode vibration (Table 2) and show that this reduces the average drop-life and increase in the melting-coefficient value. Noting the predominating influence of current strength on productivity the authors give results of measurements of the main parameters for

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SUV/180-59-2-12/34

Kinetics of the Fusion and Electrode-Metal Transfer Process in Arc Welding

various welding conditions (Table 3, Fig 10). They discuss the influence of individual factors. There are 10 figures, 3 tables and 4 references, 3 of which are Soviet and 1 English.

ASSOCIATION: Institut Metallurgii AN SSSR (Institute of

Metallurgy AS USSR)

SUBMITTED: December 1, 1958

Card 3/3

EWP(a)/EWT(a)/EPF(n)=2/EWP(t)/EWP(k)/EWP(z)/EWP(b) Pf-4/Pu-4 UR/0370/65/000/002/008B/0094 TJP(c) JD/AG ACCESSION NRI AP5013112 669 : 621.762.001 Petrunichev, V. A.; Kudinov, V. V.; Kulagin, I. D. AUTHOR: Producing spherical metal powders by vaporizing wire TITLE: SOURCE: AN SSSR. Izvestiya. Metally, no. 2, 1965, 88-94 TOPIC TAGS: powder metallurgy, spherical metallic powder, exploding wire, wire vaporization, metal vaporization ABSTRACT: Use of a plasma are to spray vaporized W. Ta, Nb, Ti and other high melting metals into contact with a water bath was studied in the search for a more effective method of producing fine spherical metal powders. Powders from 50-500 µ were produced, the bulk of the distribution falling between 150 and 300 p. The authors attained production of 10-12 Kg/hr of tungsten powder with greater than 90% having spherical shape. Variations in rate and changes in particle temperature were analyzed to explain the mechanism by which the particles are rounded, and to establish the range of spacing between spray nozzle and receiver in which the particles are not deformed by impact with the surface of the liquid. A formula is Card 1/2

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proposed for evaluating the a tem on particle dimensions an tion. Dispersion of the spre control by changing the curre current and diminished wire size. Orig. art. has: 7.fl	nd for approximating particular may from the wire is the easie ent in the arc and the diame Hamater provide spherical p	est experimental variable to ter of the wire. Increased
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also 1573

AUTHORS:

Kulagin, I. D.; Petrunichev, V. A., Candidates of Technical Sciences,

and Nikolayev, A. V., Engineer

TITLE:

Investigating the cutting with arc plasma jet singled out from a

cathode flame

PERIODICAL: Svarochnoye proizvodstvo, no. 5, 1961, 1-4

A plasma jet is used for severing and surface-planing of different materials. The plasma jet is produced by discharge of an arc excited between tungsten electrode 1 and water cooled copper nozzle 2 (Fig. 1), (Ref. 1, 2). Gas is blown through the nozzle along the cathode flame which is ionized and leaves the nozzle in the form of a bright plasma jet attaining temperatures of 10,000 -15,000°C and more. Of the two existing methods of plasma cutting, namely with the use of a plasma arc, singled out from or coinciding with the cathode flame, the authors selected the second method to investigate the heat characteristics and the cutting properties of the plasma arc. The information includes the designing of a plasma torch developed for the cutting of a number of materials. The efficiency of the cutting process depends considerably on the effective

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